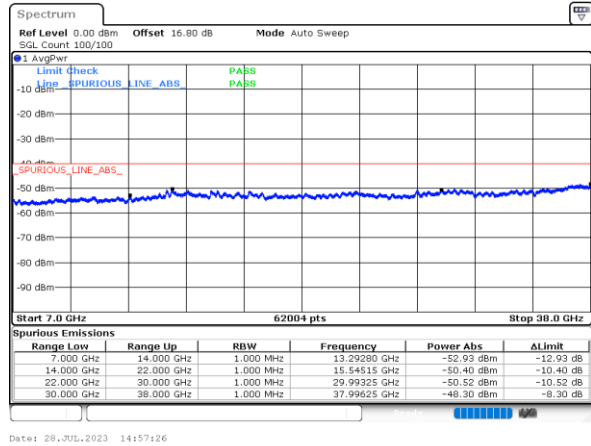
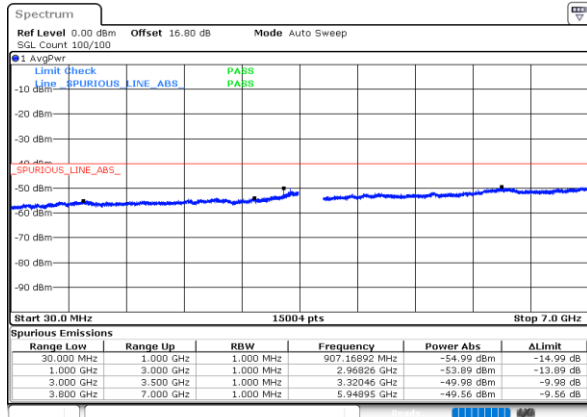


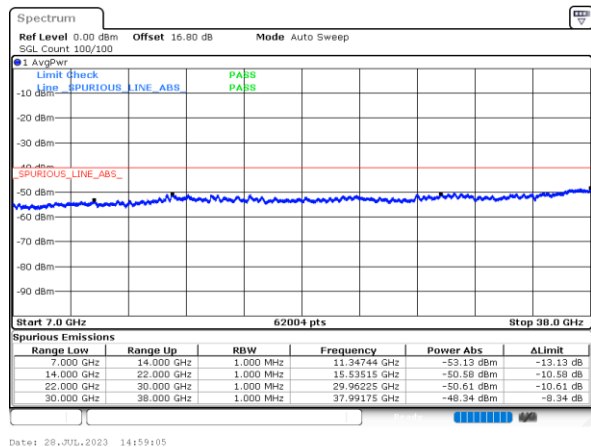
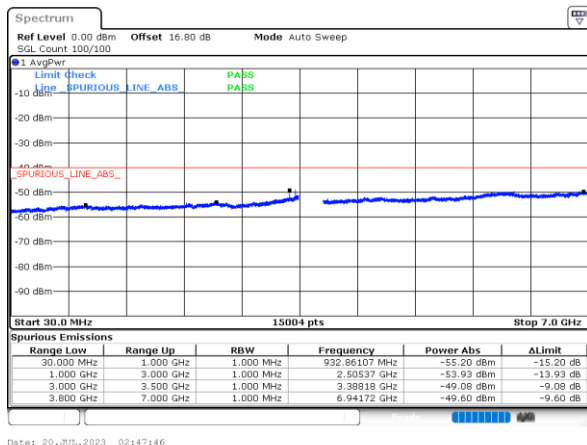


LTE Band 48 / 15MHz

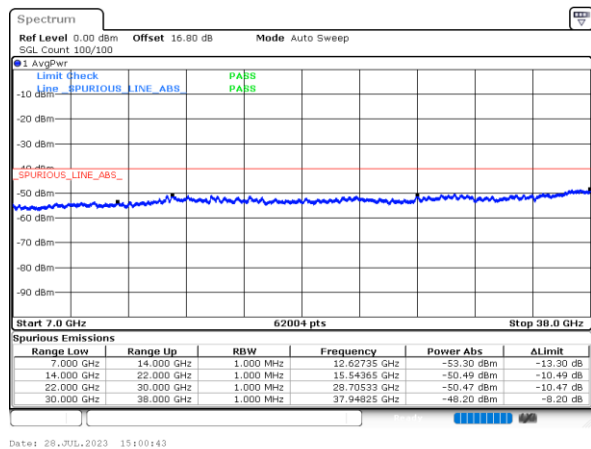
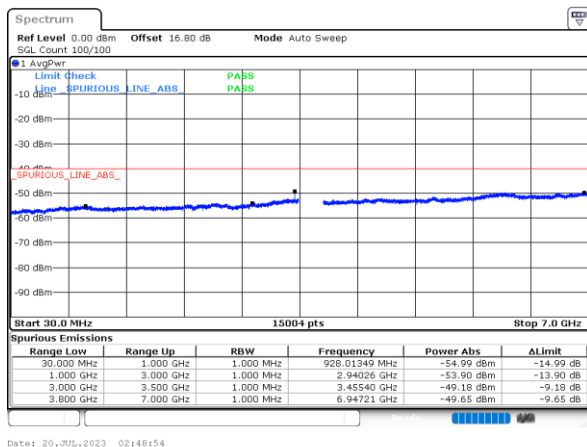
Lowest Channel / QPSK



Middle Channel / QPSK



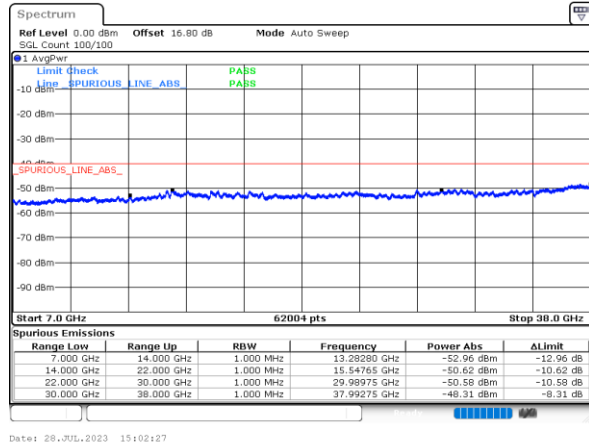
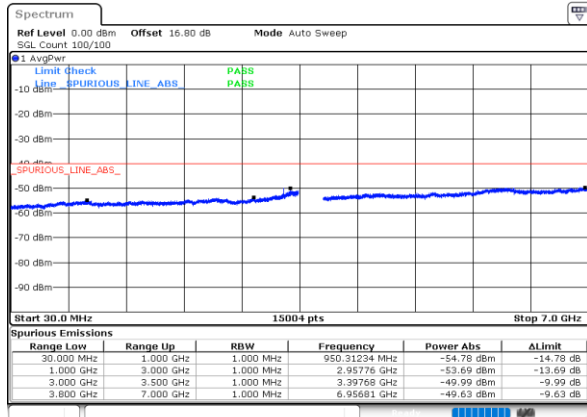
Highest Channel / QPSK



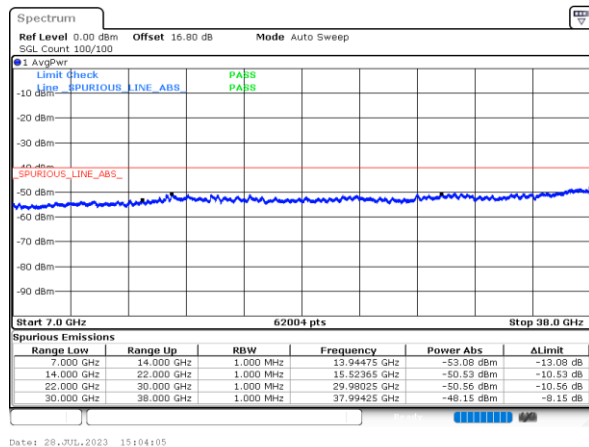
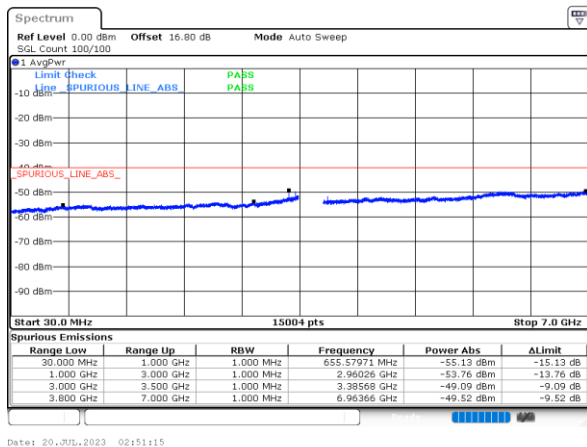


LTE Band 48 / 20MHz

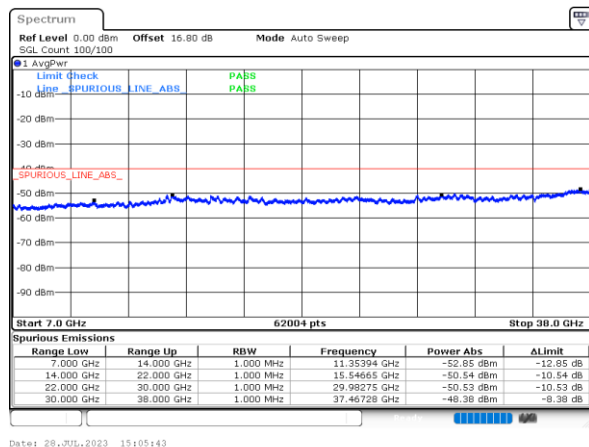
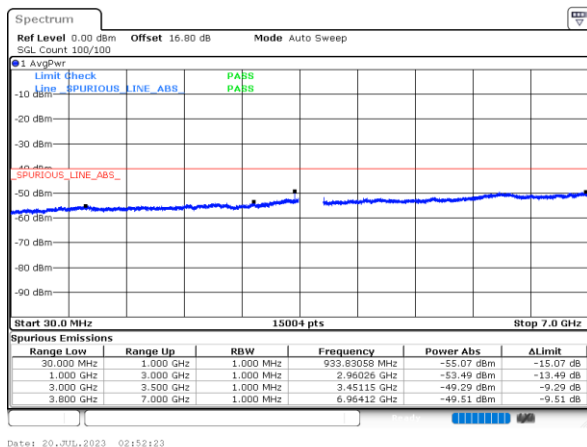
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Part	Mode	Ch	Freq (MHz)	Level (dBm)	Detector	Ant Factor (dB/m)	Amp\Cbl (dB)	Filter (dB)	EIRP CF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
96	1	H	11043.000	-53.59	RMS	38.91	-50.54	-6.33	-95.23	59.60	-40.00	-13.59	V	Tx0Rx0
96	2	L	28409.000	-54.82	RMS	40.00	-29.12	0.00	-95.23	29.53	-40.00	-14.82	V	Tx1Rx1

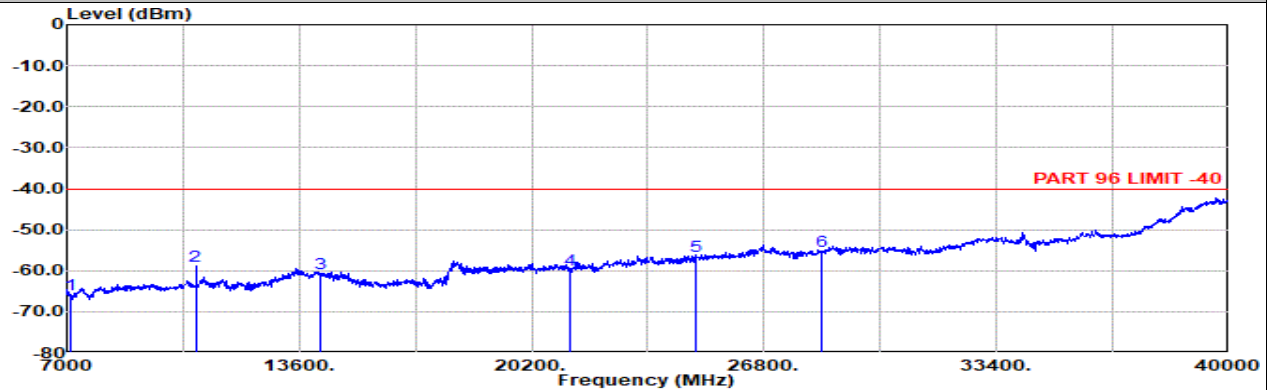


Tx0Rx0

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L

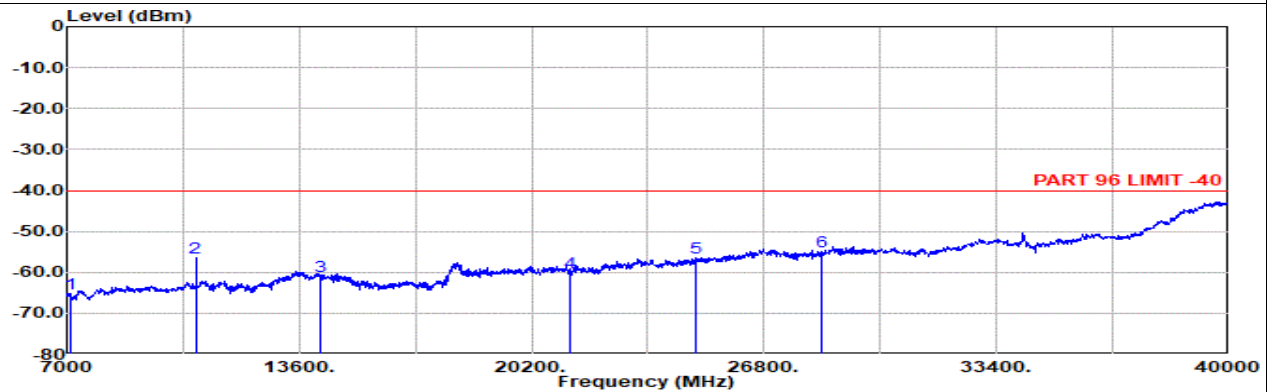


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBm	dB	
1	7102.00	-65.95	RMS		36.52	-53.17	-5.11	-95.23	0.00	-40.00	Horizontal
2	10653.00	-58.77	RMS		39.30	-51.29	-6.25	-95.23	54.70	-40.00	Horizontal
3	14204.00	-60.81	RMS		41.09	-47.48	-6.95	-95.23	47.76	-40.00	Horizontal
4	21307.00	-59.68	RMS		37.96	-31.66	0.00	-95.23	29.25	-40.00	Horizontal
5	24858.00	-56.40	RMS		39.77	-29.86	0.00	-95.23	28.92	-40.00	Horizontal
6	28409.00	-55.33	RMS		40.00	-29.12	0.00	-95.23	29.02	-40.00	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBm	dB	
1	7102.00	-65.29	RMS		36.52	-53.17	-5.11	-95.23	51.70	-40.00	Vertical
2	10653.00	-56.37	RMS		39.30	-51.29	-6.25	-95.23	57.10	-40.00	Vertical
3	14204.00	-61.04	RMS		41.09	-47.48	-6.95	-95.23	47.53	-40.00	Vertical
4	21307.00	-60.05	RMS		37.96	-31.66	0.00	-95.23	28.88	-40.00	Vertical
5	24858.00	-56.49	RMS		39.77	-29.86	0.00	-95.23	28.83	-40.00	Vertical
6	28409.00	-55.03	RMS		40.00	-29.12	0.00	-95.23	29.32	-40.00	Vertical

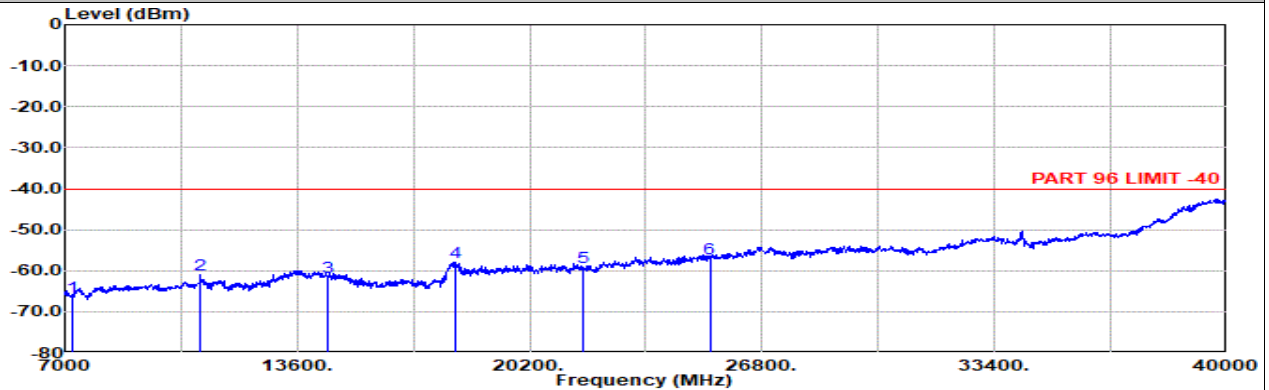


Tx0Rx0

Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

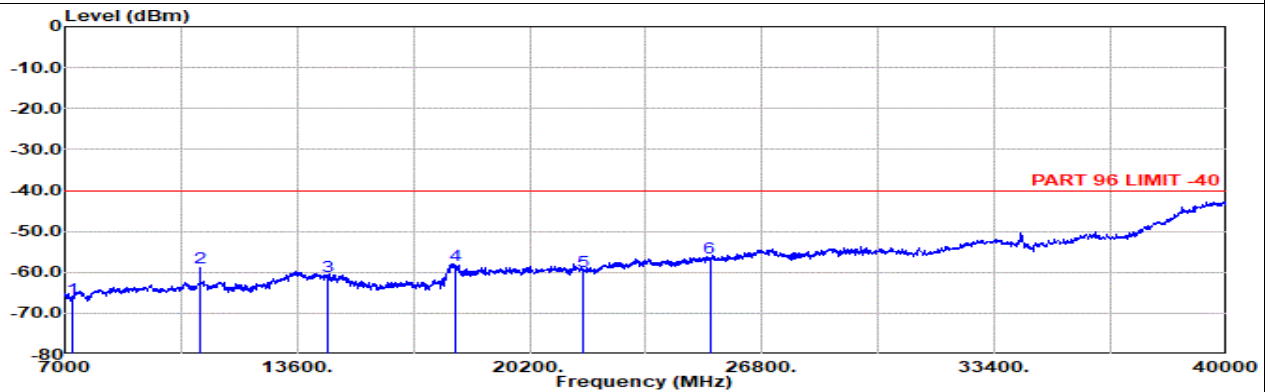


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.37	RMS	37.16	-53.25	-5.23	-95.23	50.18	-40.00	-26.37	Horizontal
2	10848.00	-60.89	RMS	39.30	-50.91	-6.29	-95.23	52.24	-40.00	-20.89	Horizontal
3	14464.00	-61.66	RMS	40.80	-47.10	-7.01	-95.23	46.88	-40.00	-21.66	Horizontal
4	18081.00	-58.04	RMS	37.50	-34.13	0.00	-95.23	33.82	-40.00	-18.04	Horizontal
5	21697.00	-59.26	RMS	38.10	-31.62	0.00	-95.23	29.49	-40.00	-19.26	Horizontal
6	25313.00	-56.98	RMS	39.25	-29.52	0.00	-95.23	28.52	-40.00	-16.98	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-66.32	RMS	37.16	-53.25	-5.23	-95.23	50.23	-40.00	-26.32	Vertical
2	10848.00	-58.88	RMS	39.30	-50.91	-6.29	-95.23	54.25	-40.00	-18.88	Vertical
3	14464.00	-61.03	RMS	40.80	-47.10	-7.01	-95.23	47.51	-40.00	-21.03	Vertical
4	18081.00	-58.37	RMS	37.50	-34.13	0.00	-95.23	33.49	-40.00	-18.37	Vertical
5	21697.00	-59.72	RMS	38.10	-31.62	0.00	-95.23	29.03	-40.00	-19.72	Vertical
6	25313.00	-56.59	RMS	39.25	-29.52	0.00	-95.23	28.91	-40.00	-16.59	Vertical

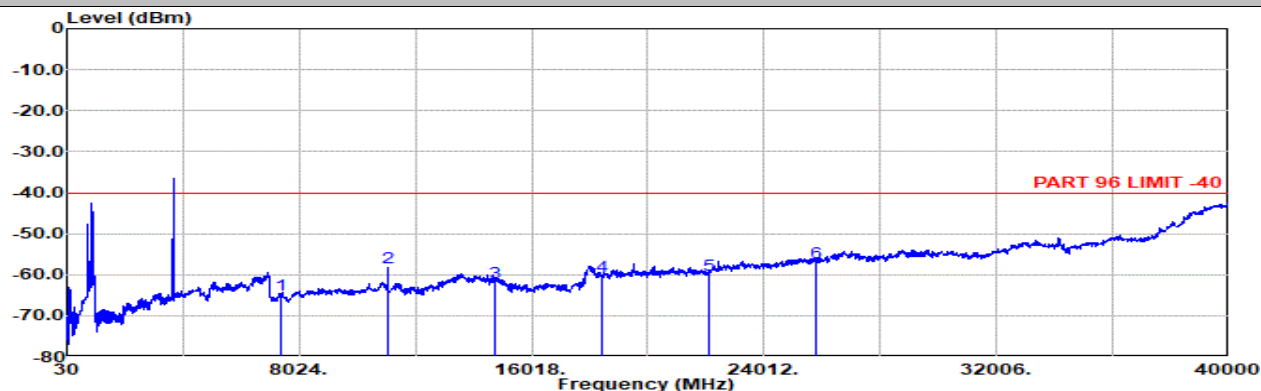


Tx0Rx0

Part 96 Mode 1

LTE B48 20M Ch56640 1RB0 QPSK

H

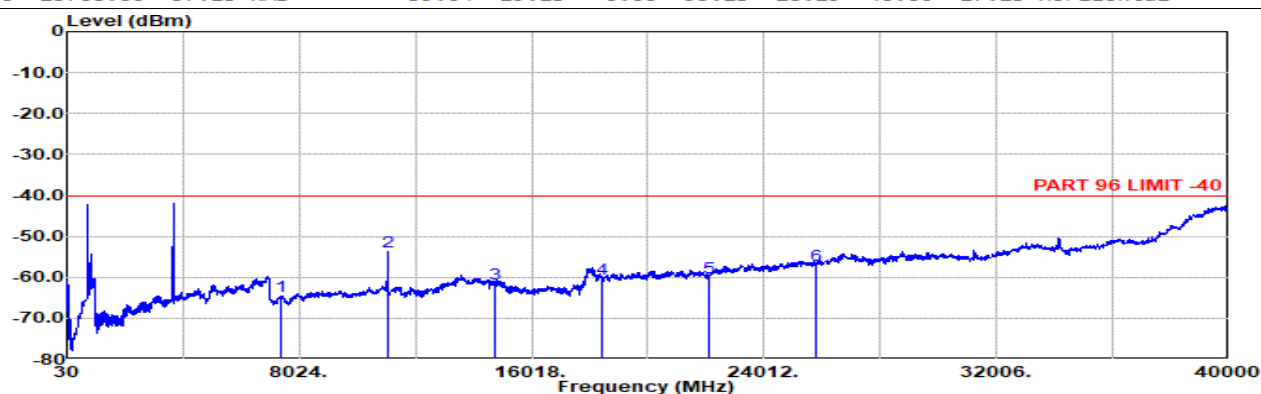


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	7362.00	-64.83	RMS	36.93	-53.19	-5.19	-95.23	51.85	-40.00	-24.83	Horizontal
2	11043.00	-58.32	RMS	38.91	-50.54	-6.33	-95.23	54.87	-40.00	-18.32	Horizontal
3	14724.00	-61.80	RMS	40.65	-46.98	-7.07	-95.23	46.83	-40.00	-21.80	Horizontal
4	18406.00	-60.32	RMS	37.86	-34.08	0.00	-95.23	31.13	-40.00	-20.32	Horizontal
5	22087.00	-60.02	RMS	38.08	-31.61	0.00	-95.23	28.74	-40.00	-20.02	Horizontal
6	25768.00	-57.13	RMS	39.04	-29.13	0.00	-95.23	28.19	-40.00	-17.13	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	7362.00	-64.51	RMS	36.93	-53.19	-5.19	-95.23	52.17	-40.00	-24.51	Vertical
2	11043.00	-53.59	RMS	38.91	-50.54	-6.33	-95.23	59.60	-40.00	-13.59	Vertical
3	14724.00	-61.44	RMS	40.65	-46.98	-7.07	-95.23	47.19	-40.00	-21.44	Vertical
4	18406.00	-60.50	RMS	37.86	-34.08	0.00	-95.23	30.95	-40.00	-20.50	Vertical
5	22087.00	-60.05	RMS	38.08	-31.61	0.00	-95.23	28.71	-40.00	-20.05	Vertical
6	25768.00	-56.92	RMS	39.04	-29.13	0.00	-95.23	28.40	-40.00	-16.92	Vertical

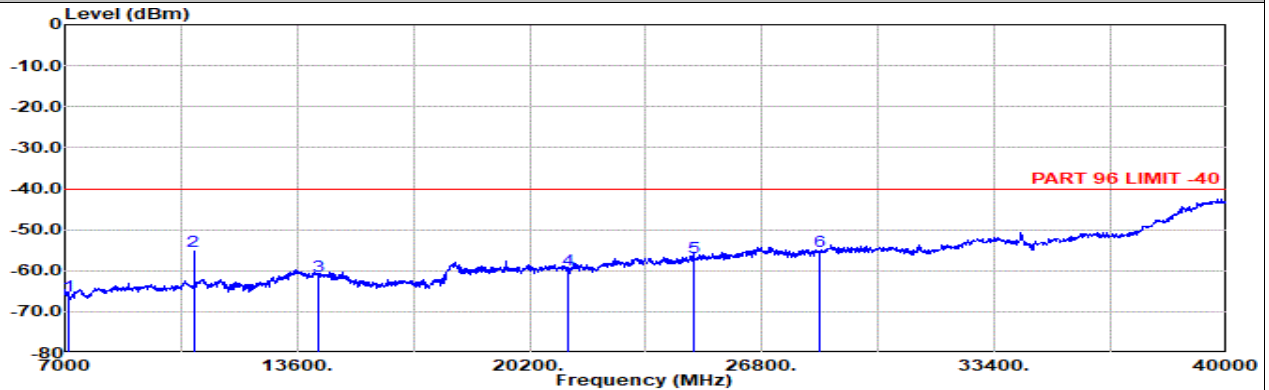


Tx1Rx1

Part 96 Mode 2

LTE B48 20M Ch55340 1RB0 QPSK

L

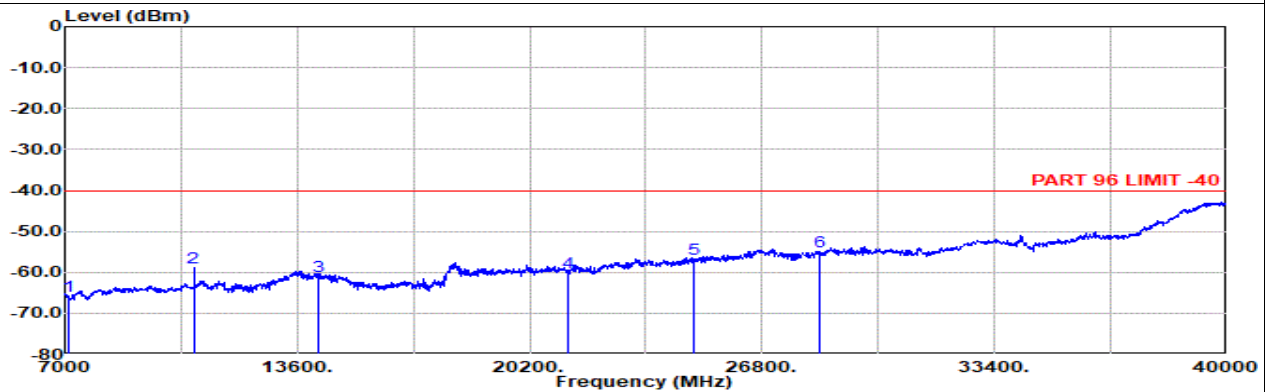


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	7102.00	-66.08	RMS	36.52	-53.17	-5.11	-95.23	50.91	-40.00	-26.08	Horizontal
2	10653.00	-55.26	RMS	39.30	-51.29	-6.25	-95.23	58.21	-40.00	-15.26	Horizontal
3	14204.00	-61.26	RMS	41.09	-47.48	-6.95	-95.23	47.31	-40.00	-21.26	Horizontal
4	21307.00	-59.89	RMS	37.96	-31.66	0.00	-95.23	29.04	-40.00	-19.89	Horizontal
5	24858.00	-56.81	RMS	39.77	-29.86	0.00	-95.23	28.51	-40.00	-16.81	Horizontal
6	28409.00	-55.11	RMS	40.00	-29.12	0.00	-95.23	29.24	-40.00	-15.11	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	7102.00	-65.93	RMS	36.52	-53.17	-5.11	-95.23	51.06	-40.00	-25.93	Vertical
2	10653.00	-58.96	RMS	39.30	-51.29	-6.25	-95.23	54.51	-40.00	-18.96	Vertical
3	14204.00	-60.94	RMS	41.09	-47.48	-6.95	-95.23	47.63	-40.00	-20.94	Vertical
4	21307.00	-60.13	RMS	37.96	-31.66	0.00	-95.23	28.80	-40.00	-20.13	Vertical
5	24858.00	-56.79	RMS	39.77	-29.86	0.00	-95.23	28.53	-40.00	-16.79	Vertical
6	28409.00	-54.82	RMS	40.00	-29.12	0.00	-95.23	29.53	-40.00	-14.82	Vertical

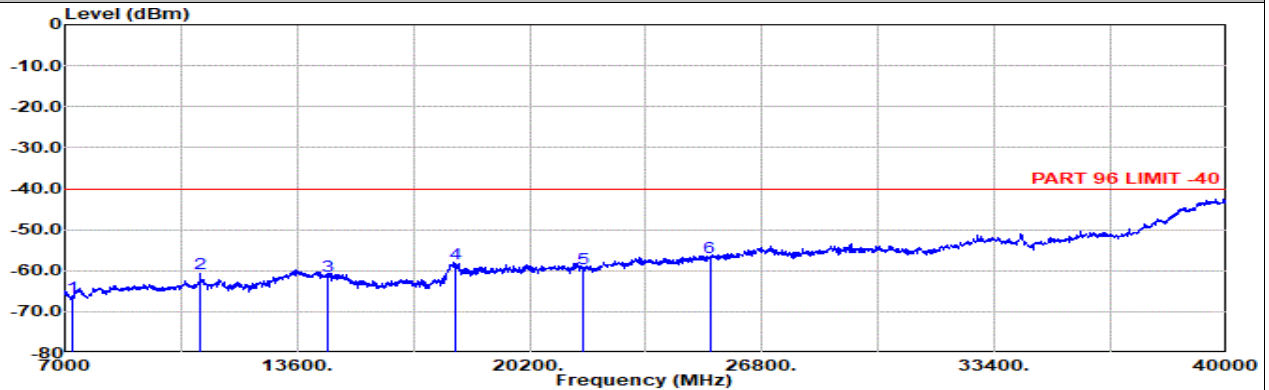


Tx1Rx1

Part 96 Mode 2

LTE B48 20M Ch55990 1RB0 QPSK

M

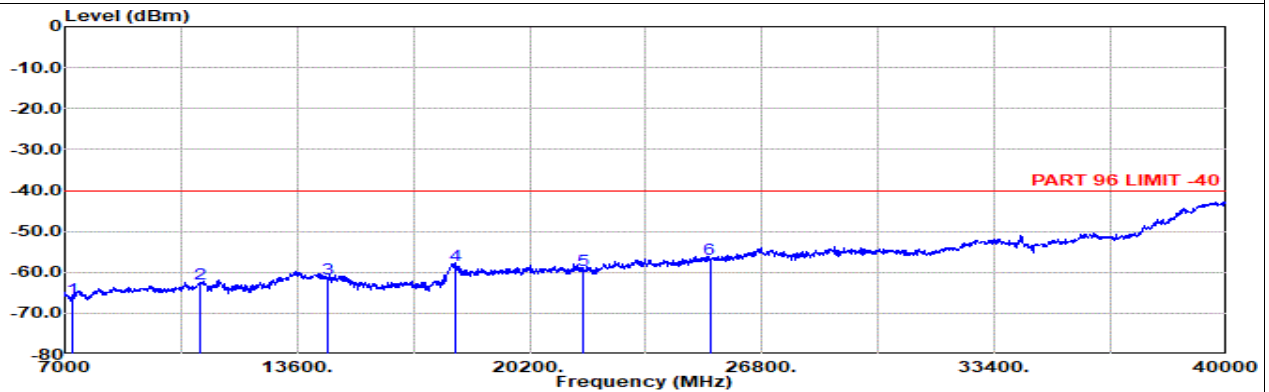


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	7232.00	-66.42	RMS	37.16	-53.25	-5.23	-95.23	50.13	-40.00	-26.42	Horizontal
2	10848.00	-60.80	RMS	39.30	-50.91	-6.29	-95.23	52.33	-40.00	-20.80	Horizontal
3	14464.00	-61.39	RMS	40.80	-47.10	-7.01	-95.23	47.15	-40.00	-21.39	Horizontal
4	18081.00	-58.15	RMS	37.50	-34.13	0.00	-95.23	33.71	-40.00	-18.15	Horizontal
5	21697.00	-59.52	RMS	38.10	-31.62	0.00	-95.23	29.23	-40.00	-19.52	Horizontal
6	25313.00	-56.75	RMS	39.25	-29.52	0.00	-95.23	28.75	-40.00	-16.75	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	7232.00	-66.39	RMS	37.16	-53.25	-5.23	-95.23	50.16	-40.00	-26.39	Vertical
2	10848.00	-62.85	RMS	39.30	-50.91	-6.29	-95.23	50.28	-40.00	-22.85	Vertical
3	14464.00	-61.71	RMS	40.80	-47.10	-7.01	-95.23	46.83	-40.00	-21.71	Vertical
4	18081.00	-58.14	RMS	37.50	-34.13	0.00	-95.23	33.72	-40.00	-18.14	Vertical
5	21697.00	-59.49	RMS	38.10	-31.62	0.00	-95.23	29.26	-40.00	-19.49	Vertical
6	25313.00	-56.83	RMS	39.25	-29.52	0.00	-95.23	28.67	-40.00	-16.83	Vertical

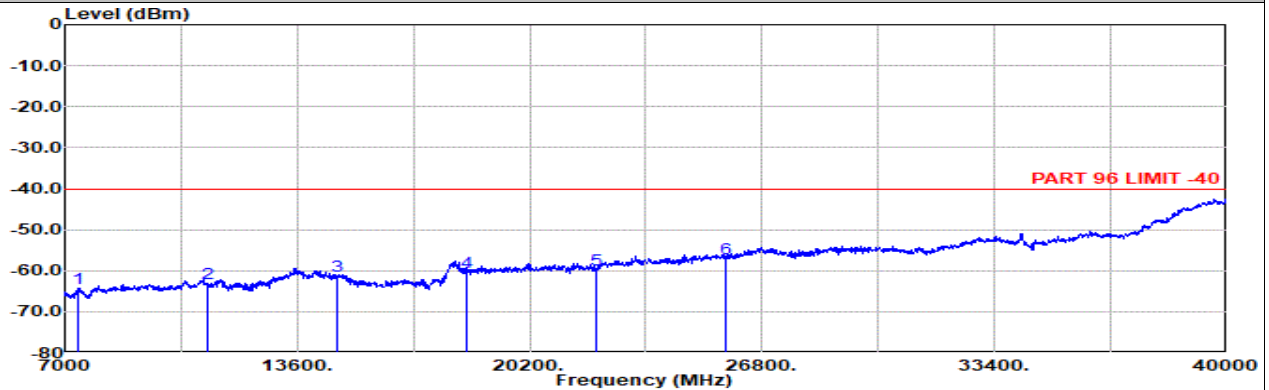


Tx1Rx1

Part 96 Mode 2

LTE B48 20M Ch56640 1RB0 QPSK

H

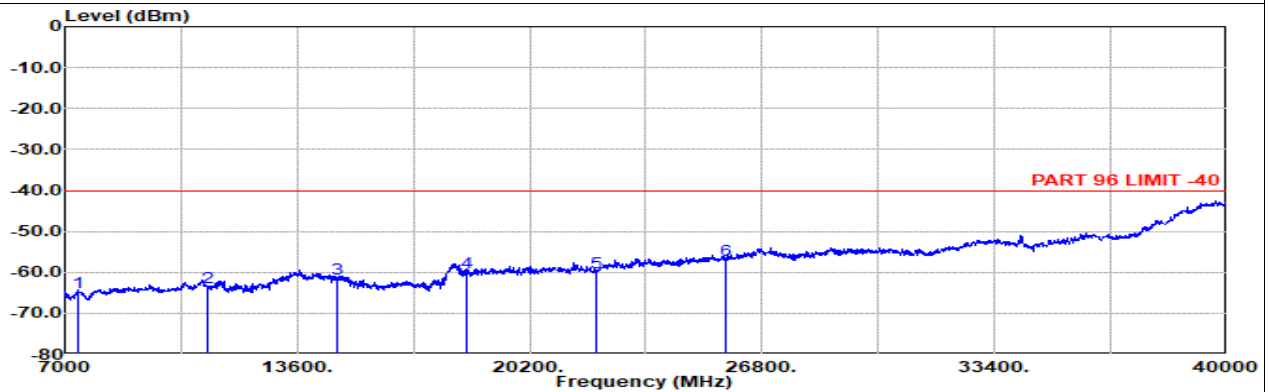


Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Horizontal

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	7362.00	-64.28	RMS	36.93	-53.19	-5.19	-95.23	52.40	-40.00	-24.28	Horizontal
2	11043.00	-63.23	RMS	38.91	-50.54	-6.33	-95.23	49.96	-40.00	-23.23	Horizontal
3	14724.00	-61.34	RMS	40.65	-46.98	-7.07	-95.23	47.29	-40.00	-21.34	Horizontal
4	18406.00	-60.39	RMS	37.86	-34.08	0.00	-95.23	31.06	-40.00	-20.39	Horizontal
5	22087.00	-59.75	RMS	38.08	-31.61	0.00	-95.23	29.01	-40.00	-19.75	Horizontal
6	25768.00	-57.04	RMS	39.04	-29.13	0.00	-95.23	28.28	-40.00	-17.04	Horizontal



Site : 03CH12-HY

Condition: PART 96 LIMIT -40 3m 9120D-02114-230731 Vertical

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm				dB	dB	dBuV	dBm	dB	
1	7362.00	-64.77	RMS	36.93	-53.19	-5.19	-95.23	51.91	-40.00	-24.77	Vertical
2	11043.00	-63.78	RMS	38.91	-50.54	-6.33	-95.23	49.41	-40.00	-23.78	Vertical
3	14724.00	-61.47	RMS	40.65	-46.98	-7.07	-95.23	47.16	-40.00	-21.47	Vertical
4	18406.00	-59.94	RMS	37.86	-34.08	0.00	-95.23	31.51	-40.00	-19.94	Vertical
5	22087.00	-60.02	RMS	38.08	-31.61	0.00	-95.23	28.74	-40.00	-20.02	Vertical
6	25768.00	-56.97	RMS	39.04	-29.13	0.00	-95.23	28.35	-40.00	-16.97	Vertical

—THE END—